

Notice of Allowability

Application No.

09/785,528

Examiner

Pedro J. Cuevas

Applicant(s)

YAGYU ET AL.

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed April 30, 2003.
2. ☒ The allowed claim(s) is/are 1-11.
3. ☒ The drawings filed on 20 February 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____ | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other _____ |

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-11 are allowed.
2. The following is an examiner's statement of reasons for allowance.

Sato et al. disclose the construction of a stepper motor comprising:

a stator core;

a rotor held by a rotary shaft with a predetermined void between said stator core and the rotor;

a bobbin-shaped insulator mounted on said stator core provided with a flange portion on at least one of outer diameter side and inner diameter side, and wound with a stator winding; and

conductors and insulating layers arranged on outer diameter side of said circular arc-shaped flange portions of said bobbin-shaped insulator, wherein said conductors are provided with a connecting portion for connecting terminal lead wires of said stator winding corresponding to lead positions of said terminal lead wires.

Yoshida et al. teach the construction of a terminal unit containing male-connector for the purpose of connecting the integral circuit with the outside, and provided with portions arranged so as to surround said rotary shaft.

Hollenbeck et al. teach the use of engaging members and corresponding notches for the purpose of hold the circuit board to the stator assembly.

Maeno et al. teach the use of screw portions and an elastic member on the construction of a vibration driven apparatus for the purpose of providing a vibration driven apparatus in which

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an electro-mechanical energy conversion element is clamped between first and second elastic vibration members, at least one elastic vibration member is formed to project from a region of the conversion element, and a movement relative to a contact member is achieved by a vibration formed on the projecting portion, and which generates a large driving force and can be miniaturized.

The prior art of record, taken alone or in combination, fails to teach the construction of an electric motor as described on independent claims 1, 6, and 9, having:

annular conductors and insulating layers arranged on outer diameter side of the cylinder portion of said terminal holder and laminated alternately in axial direction (claim 1);

annular electric conductors stored in the grooves on outer diameter side of said cylinder portion of said terminal holder (claim 6); and

annular conductors and insulating layers arranged on outer diameter side of the circular arc-shaped flange portions of a bobbin-shaped insulator and are laminated alternately in axial direction (claim 9).

Dependent claims 2-5, 7-8, and 10-11 are considered allowable by their respective dependence on allowed independent claims 1, 6, and 9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas
June 19, 2003

KARL TAMAI
PRIMARY EXAMINER

